

AMENDMENTS TO THE SPECIFICATION

Please make the following changes to the indicated paragraphs of the specification in the application. (Changes are noted in the replacement paragraphs by striking through deleted portions and underlining added portions.)

Listing of Amended Specification Paragraphs

1. Amend the paragraph that begins on page 2 at line 22 with "In an effort . . ." and ends on page 3 at line 4 with ". . . particular diameter" by replacing it with the following amended paragraph:

In an effort to improve the way wheels of vehicles get polished, the applicant herein perceived the need for (and, as set forth elsewhere in this specification, has invented) a universal polishing chuck. This universal polishing chuck would be all that thea person needswould need in order to polish specialized wheels of all shapes and sizes. TheAn air cylinder would adjust the three pulling brackets around the outside of thea turntable made, for example, of a $\frac{1}{2}$ inch-thick steel plate, to hold the wheel by its lip on the top side of the turntable. Once the wheel ishas been properly positioned and gripped, it would be ready for polishing. Subsequent wheels to be polished may require simple adjustment of the pulling brackets to accommodate the particular diameter.

2. Amend the paragraph that begins on page 4 at line 11 with "Of the three . . ." and ends on the same page at line 16 with ". . . of the total" by replacing it with the following amended paragraph:

Of the three, automotive appearance products are the fastest growing market segment. They are leadled by light truck accessories, growing at 15 percent annually. This represents 3.27 billion of the automotive specialty market. Performance parts represent \$3.58 billion in retail sales, almost \$500 million of which involves racing parts. Between government regulations and technology, however,

the overall growth of performance parts is barely keeping pace with inflation. Handling products represented \$3.15 billion of the total.

3. Amend the paragraph that begins on page 6 at line 3 with "Fundamentally . . ." and ends on the same page at line 17 with ". . . metal wheels" by replacing it with the following amended paragraph:

Fundamentally, the invention disclosed herein is basically described as a new and improved powered rotating turntable with a self-adjusting chuck for gripping and holding auto wheels for polishing. The chuck is pneumatically controlled (with pneumatically-operated brackets—also referred to as fingers or jaws) for gripping specialty wheel rims of motor vehicles to facilitate the polishing thereof. The chuck is self-adjusting and is able to handle any diameter of wheel. With its self-adjusting, self-centering capability, the need to set up a new jig each time that a group of rims having a diameter or style different than the last series of wheel rims that were polished is eliminated thereby greatly improving the efficiency of the entire wheel polishing operation both in terms of time and cost of operation. It has a mounting shaft that is standard for semi-automatic wheel polishing machines. Once the wheel has been polished, the air (or other fluid being used) would be vented and the pneumatically-operated brackets would return to their original unactuated position for receiving the next sized wheel to be polished. Basically, this invention is readily adapted to polishing all of the currently standard-sized wheels and rims, including, but not limited solely thereto, 13, 14, 15, 16, and 17, and 21 inches in diameter wheels without stopping to change jigs as normally would be the case. Obviously, this pneumatically-operable chuck could be used by any business that would be involved in the polishing of specialty metal wheels.

4. Amend the paragraph that begins on page 9 at line 16 with "One of the preferred . . ." and ends on page 10 at line 11 with ". . . and the disk 25" by replacing it with the following amended paragraph:

One of the preferred embodiments of the instant invention is to provide a new

and unique combination powered turntable 13 with a self-adjusting, self-centering chuck 11 for holding and positioning an auto wheel 12, or the like, including a powered turntable 13 having at least three radially-arranged, equidistantly-disposed slots 14, 15, and 16 therein, a hollow drive shaft 17 centrally mounted to the turntable 13 for driving the turntable 13, three jaws 18, 19, and 20 slideably mounted in the slots 14, 16, and 15 in the turntable 13 for gripping and holding the auto wheel 12 to be polished, a bearing 21 having an inner race 22 and an outer race 23 with bearings 24 housed therebetween, the inner race 22 being mounted on the drive shaft means 17, an annular disk 25 having a centrally located receptacle 26 for receiving the outer race 23 of the bearing 21 therein, the receptacle 26 adapted to operably receive and mount the outer race 23 of the bearing means 21 therein, the disk means 25 having at least three equidistant threaded receptacles 27, 28 and 29 for receiving threaded fasteners 30, 31 and 32 therein, whereby the disk means 25 is rotatably movable independently of the rotating movement of the drive shaft means 17, at least three longitudinal position control arms 33, 34, and 35 for positioning the jaws 18, 19 and 20 respectively in the slots 14, 16, and 15 in the turntable 13, each control arm having a pair of oppositely disposed ends with an aperture in each end thereof. Apertures 36, 37 are in the opposite ends of the longitudinal control arm 33. Control arm 34 has a pair of oppositely disposed apertures 38, 39, and control arm 35 has a pair of apertures 40, 41. ~~Pairs of threaded fasteners 42, 43, and 44, 45, and 46, 47~~ Pivot fasteners 42, 44, and 46 are threaded into their respective pivot receptacles (each pivot receptacle being similar in this embodiment to pivot receptacle 47 shown in Fig. 6), and are used to pivotally secure each of the control arms 33, 34 and 35, respectively, to the sliding guide blocks 48, 49, 50 which are, in turn, respectively, secured to the jaws 19, 18 and 20 and connected via their respective control arms 33, 34, and 35 to the disk 25.

5. Amend the paragraph that begins on page 10 at line 13 with "The pairs of threaded . . ." and ends on page 11 at line 2 with ". . . blocks 48, 48, 50" by replacing it with the following amended paragraph:

~~The pairs of threaded fasteners 42, 43, and 44, 45, and 46, 47pivot fasteners 42, 44, and 46~~ are respectively indirectly secured to the jaws 19, 18 and 20, respectively, via sliding guide blocks 48, 49, and 50, respectively disposed in or adjacent to the slots 16, 14 and 15 directly beneath the respective jaws 19, 18 and 20. The sliding guide blocks 48, 49, and 50, respectively, are secured directly to the jaws 19, 18, and 20 via a pair of threaded bolts one example of which is shown in **Fig. 6**. One of the three jaws, jaw 18 is shown in cross-section in **Fig. 6** and is disposed over slot 14 in the turntable 13. The sliding guide block 49 is secured to the bottom of the jaw 18 via a pair of threaded bolts 51 and 52. The other jaws 19 and 20 are similarly arranged and connected with a pair of threaded bolts to the sliding guide blocks 48 and 50, respectively, and disposed in the corresponding slots 16 and 15 as is jaw 18 in **Fig 6**. In this way, each of the pairs of apertures in the ends of control arms, 33, 34 and 35 are pivotally secured between the disk 25 and the sliding guide blocks 48, 49 and 50 thereby controlling the position of the jaws 18, 19 and 20 ~~within~~along the slots 14, 16, 15 via the pivotal connection, respectively, to the guide blocks 49, 48, 50.

6. Amend the paragraph that begins on page 11 at line 13 with "With special emphasis . . ." and ends on the same page at line 20 with ". . . the turntable 13" by replacing it with the following amended paragraph:

With special emphasis now on **Fig. 3**, a pneumatically-operated piston-driven shaft 56, ~~also referred to as~~which is part of a pneumatic actuator, the shaft 56 being longitudinally moveable within a housing 57, is used to operate a positioning and locking arm 58 for the disk 25. One end 59 of the disk positioning and locking arm 58 is preferably securely mounted to the disk 25 by welding the one end 59 of the arm 58 directly to the disk 25. The opposite end of the arm 58 has an aperture which is pivotally secured to a clevis 60 mounted on the end of the shaft 56 via a fastener, such as a bolt and nut. The other end of the housing 57 is pivotally mounted to the bottom of the turntable 13 via a clevis 61 through which a bolt 63 is mated to a threaded receptacle 62 as shown in **Fig. 1**Fig. 2 in the turntable 13.

7. Amend the paragraph that begins on page 11 at line 22 with "A source . . ." and ends on page 12 at line 8 with ". . . pneumatic actuator" by replacing it with the following amended paragraph:

A source of compressed air is delivered to the pneumatic actuator ~~composed~~comprised in this embodiment of a of the shaft 56 mounted ~~within~~awithin the housing 57 via a swivel valve 64 connected ~~to a~~ hollow portion 66 of the drive shaft 17 as shown in **Fig. 4**, ~~at the far~~ end 67 of the drive shaft 17. The swivel valve 64 remains in a relatively fixed position while the drive shaft 17 is rotationally driven to drive the turntable 13. The swivel valve 64 is connected to the source of compressed air via tubing 65 as illustrated in **Fig. 3**. In turn, as shown in **Fig. 4**, the hollow portion 66 of the drive shaft 17 is connected to a tubing connector 68 that is connected to a second tubing 70 via a cross-bored passageway 69 in the drive shaft 17 which intersects the hollow portion 66 of the drive shaft 17. The other end of the second tubing 70 is connected via a second tubing connector 71 which is mounted to the housing 57 of the pneumatic actuator. The second tubing connector 71 is in pneumatic connection with the inside of the housing 57 of the pneumatic actuator.

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